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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/036,111

DATE: 08/12/2002  
TIME: 15:28:51

Input Set : A:\1-1166.ST25.txt  
Output Set: N:\CRF4\08122002\J036111.raw

3 <110> APPLICANT: Peters, Stefan  
4       Leipert, Dietmar  
5       Park, John Edward  
6       Lenter, Martin  
7       Garin-Chesa, Pilar  
9 <120> TITLE OF INVENTION: FAP-activated anti-tumor compounds  
11 <130> FILE REFERENCE: 1/1166  
13 <140> CURRENT APPLICATION NUMBER: US 10/036,111  
14 <141> CURRENT FILING DATE: 2001-11-09  
16 <150> PRIOR APPLICATION NUMBER: US 60/262,281  
17 <151> PRIOR FILING DATE: 2001-01-17  
19 <150> PRIOR APPLICATION NUMBER: GB 0027551.1  
20 <151> PRIOR FILING DATE: 2000-11-10  
22 <160> NUMBER OF SEQ ID NOS: 10  
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
26 <210> SEQ ID NO: 1  
27 <211> LENGTH: 9  
28 <212> TYPE: PRT  
29 <213> ORGANISM: Artificial Sequence  
31 <220> FEATURE:  
32 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group  
W--> 34 <221> NAME/KEY: MOD\_RES  
35 <222> LOCATION: 1  
36 <223> OTHER INFORMATION: Xaa = imidazole  
W--> 38 <221> BINDING  
39 <222> LOCATION: 1  
40 <223> OTHER INFORMATION: Amino acid 1 is attached by a capping group from  
41       benzoyloxycarbonyl, phenylacetyl,  
42       phenylmethylsulfonyl, benzylaminocarbonyl,  
43       pyridinyloxycarbonyl, pyridinylacetyl,  
W--> 44       pyridinylmethylsulfonyl and  
W--> 45       pyridylmethylaminoacrbonyl  
W--> 47 <221> VARIANT  
48 <222> LOCATION: 2, 3, 4, 5, 6, 7  
49 <223> OTHER INFORMATION: Xaa = any amino acid and up to five can be missing  
W--> 51 <400> 1  
W--> 52 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Gly  
53   1                               5  
56 <210> SEQ ID NO: 2  
57 <211> LENGTH: 9  
58 <212> TYPE: PRT  
59 <213> ORGANISM: Artificial Sequence  
61 <220> FEATURE:

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62 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group

W--> 64 <221> NAME/KEY: BINDING

65 <222> LOCATION: 1

66 <223> OTHER INFORMATION: Amino acid 1 is attached by a capping group from

67 benzoyloxycarbonyl, phenylacetyl,

68 phenylmethylsulfonyl, benzylaminocarbonyl,

69 pyridinyloxycarbonyl, pyridinylacetyl,

W--> 70 pyridinylmethylsulfonyl and

W--> 71 pyridylmethylaminocarbonyl

W--> 73 <221> VARIANT

74 <222> LOCATION: 1, 2, 3, 4, 5, 6

75 <223> OTHER INFORMATION: Xaa = any amino acid and up to five can be missing

W--> 77 <221> MOD\_RES

78 <222> LOCATION: 2, 7

79 <223> OTHER INFORMATION: Xaa = imidazole

W--> 81 <400> 2

W--> 82 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Gly

83 1 5

86 <210> SEQ ID NO: 3

87 <211> LENGTH: 4

88 <212> TYPE: PRT

89 <213> ORGANISM: Artificial Sequence

91 <220> FEATURE:

92 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group

W--> 94 <221> NAME/KEY: MOD\_RES

95 <222> LOCATION: 1

96 <223> OTHER INFORMATION: Xaa = thiazole and is attached by

97 benzyloxycarbonyl

W--> 99 <221> BINDING

100 <222> LOCATION: 4

101 <223> OTHER INFORMATION: Amino acid 4 is attached by OH

W--> 103 <400> 3

W--> 104 Xaa Ala Gly Pro

105 1

108 <210> SEQ ID NO: 4

109 <211> LENGTH: 4

110 <212> TYPE: PRT

111 <213> ORGANISM: Artificial Sequence

113 <220> FEATURE:

114 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group

W--> 116 <221> NAME/KEY: MOD\_RES

117 <222> LOCATION: 1

118 <223> OTHER INFORMATION: Xaa = thiazole and is attached by pyridin-3-

119 ylmethoxycarbonyl

W--> 121 <221> BINDING

122 <222> LOCATION: 4

123 <223> OTHER INFORMATION: Amino acid 4 is attached by OH

W--> 125 <400> 4

W--> 126 Xaa Ala Gly Pro

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Input Set : A:\1-1166.ST25.txt

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127 1
130 <210> SEQ ID NO: 5
131 <211> LENGTH: 4
132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group
W--> 138 <221> NAME/KEY: MOD_RES
139 <222> LOCATION: 1
140 <223> OTHER INFORMATION: Xaa = thiazole and is attached by
141     benzyloxycarbonyl
W--> 143 <221> BINDING
144 <222> LOCATION: 4
145 <223> OTHER INFORMATION: Amino acid 4 is attached by doxorubicin
W--> 147 <400> 5
W--> 148 Xaa Ala Gly Pro
149 1
152 <210> SEQ ID NO: 6
153 <211> LENGTH: 5
154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group
W--> 160 <221> NAME/KEY: MOD_RES
161 <222> LOCATION: 1
162 <223> OTHER INFORMATION: Xaa = thiazole and is attached by
163     benzyloxycarbonyl
W--> 165 <221> MOD_RES
166 <222> LOCATION: 5
167 <223> OTHER INFORMATION: Xaa = 7-amino-4-methyl-coumarin-acetic acid and is
168     attached by OH
W--> 170 <400> 6
W--> 171 Xaa Ala Gly Pro Xaa
172 1 5
175 <210> SEQ ID NO: 7
176 <211> LENGTH: 5
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group
W--> 183 <221> NAME/KEY: MOD_RES
184 <222> LOCATION: 1
185 <223> OTHER INFORMATION: Xaa = imidazole and is attached by
186     benzyloxycarbonyl
W--> 188 <221> MOD_RES
189 <222> LOCATION: 5
190 <223> OTHER INFORMATION: Xaa = 7-amino-4-methyl-coumarin-acetic acid
W--> 192 <400> 7
W--> 193 Xaa Ala Gly Pro Xaa

```

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Input Set : A:\1-1166.ST25.txt

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```

194 1 5
197 <210> SEQ ID NO: 8
198 <211> LENGTH: 5
199 <212> TYPE: PRT
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group
W--> 205 <221> NAME/KEY: MOD_RES
206 <222> LOCATION: 1
207 <223> OTHER INFORMATION: Xaa = thiazole and is attached by
208 benzyloxycarbonyl
W--> 210 <221> MOD_RES
211 <222> LOCATION: 5
212 <223> OTHER INFORMATION: Xaa = 7-amino-4-methyl-coumarin-acetid acid
W--> 214 <400> 8
W--> 215 Xaa Ala Gly Pro Xaa
216 1 5
219 <210> SEQ ID NO: 9
220 <211> LENGTH: 4
221 <212> TYPE: PRT
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group
W--> 227 <221> NAME/KEY: MOD_RES
228 <222> LOCATION: 1
229 <223> OTHER INFORMATION: Xaa = thiazole and is attached by
230 benzyloxycarbonyl
W--> 232 <221> BINDING
233 <222> LOCATION: 4
234 <223> OTHER INFORMATION: Amino acid 4 is attached by melphalan
W--> 236 <400> 9
W--> 237 Xaa Ala Gly Pro
238 1
241 <210> SEQ ID NO: 10
242 <211> LENGTH: 4
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: aminoalkanoyl or oligopeptidoyl group
W--> 249 <221> NAME/KEY: MOD_RES
250 <222> LOCATION: 1
251 <223> OTHER INFORMATION: Xaa = thiazole and is attached by
252 benzyloxycarbonyl
W--> 254 <221> BINDING
255 <222> LOCATION: 4
256 <223> OTHER INFORMATION: Amino acid 4 is attached by OH
W--> 258 <400> 10
W--> 259 Xaa Ala Gly Pro
260 1

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/036,111

DATE: 08/12/2002  
TIME: 15:28:52

Input Set : A:\1-1166.ST25.txt  
Output Set: N:\CRF4\08122002\J036111.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,7  
Seq#:2; Xaa Pos. 1,2,3,4,5,6,7  
Seq#:3; Xaa Pos. 1  
Seq#:4; Xaa Pos. 1  
Seq#:5; Xaa Pos. 1  
Seq#:6; Xaa Pos. 1,5  
Seq#:7; Xaa Pos. 1,5  
Seq#:8; Xaa Pos. 1,5  
Seq#:9; Xaa Pos. 1  
Seq#:10; Xaa Pos. 1

## VERIFICATION SUMMARY

DATE: 08/12/2002

PATENT APPLICATION: US/10/036,111

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Input Set : A:\1-1166.ST25.txt

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L:34 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:38 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:44 M:259 W: Allowed number of lines exceeded, <223> Other Information:  
L:45 M:259 W: Allowed number of lines exceeded, <223> Other Information:  
L:47 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:51 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:64 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:70 M:259 W: Allowed number of lines exceeded, <223> Other Information:  
L:71 M:259 W: Allowed number of lines exceeded, <223> Other Information:  
L:73 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:77 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:81 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:94 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:99 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3  
L:103 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3  
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:116 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:121 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
L:125 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:138 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:143 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:147 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:160 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:165 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6  
L:170 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6  
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:183 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:188 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7  
L:192 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7  
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:205 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:210 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8  
L:214 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8  
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:227 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:232 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9  
L:236 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9  
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:249 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:254 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10  
L:258 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10  
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0